

What is claimed is:

1. A method for segmenting 3-D object information observed in a trinocular set of 2-D images comprising the steps of:

- 5       acquiring an image from each camera of a trinocular device;
- detecting sets of edge data corresponding to each said image;
- performing pair-wise matching analysis on at least two pairs of sets of said edge data;
- merging the at least two outputs of said pair-wise matching analysis;
- computing 3-D features from said merged output; and
- 10      clustering said 3-D features into discrete 3-D objects.